

#786

ULYSSES

SWICS 3.5 HOUR AVERAGE CRUISE DATA

90-090B-04A

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90-090B-04A

THIS DATASET CONSISTS OF 1 MAGNETIC TAPE. THE TAPE IS 9-TRACK, 6250 BPI, ASCII CREATED ON A VAX COMPUTER WITH A LABEL NAME OF "ULYSWC". A DIRECTORY OF THE TAPE, AS WELL AS A COPY OF THE FORMAT AND README.TXT IS INCLUDED IN THE CATALOG. THE D AND C NUMBER ALONG WITH ITS TIME SPAN IS LISTED BELOW.

D#	C#	FILES	TIME SPAN
—	—	—	—
D-108002	C-031730	64	12/07/90-12/31/95

SWICS FILE FORMAT (REFERENCE: A&A,92,2 page 279, table 5)

LOCATION: ESTUDS::DKA500:[UDS.SWICS]USWIMATA90324.DAT;1

UDS REPRESENTATIVE: R. VON STEIGER (VSTEIGER@PHIM.UNIBE.CH)

RECORD FORMAT:

C FREE FORMAT

```
READ(1,*) IYEAR, IDOY, IHOUR, IMIN, ISEC,
.          DENS_ALPHA, VEL_ALPHA, TEMP_ALPHA,
.          DENS_C6, VEL_C6, TEMP_C6,
.          DENS_O6, VEL_O6, TEMP_O6,
.          DENS_NE8, VEL_NE8, TEMP_NE8,
.          DENS_MG10, VEL_MG10, TEMP_MG10,
.          DENS_SI9, VEL_SI9, TEMP_SI9,
.          DENS_S10, VEL_S10, TEMP_S10,
.          DENS_FE11, VEL_FE11, TEMP_FE11
```

C FIXED FORMAT

```
READ(1,100) IYEAR, IDOY, IHOUR, IMIN, ISEC,
.          DENS_ALPHA, VEL_ALPHA, TEMP_ALPHA,
.          DENS_C6, VEL_C6, TEMP_C6,
.          DENS_O6, VEL_O6, TEMP_O6,
.          DENS_NE8, VEL_NE8, TEMP_NE8,
.          DENS_MG10, VEL_MG10, TEMP_MG10,
.          DENS_SI9, VEL_SI9, TEMP_SI9,
.          DENS_S10, VEL_S10, TEMP_S10,
.          DENS_FE11, VEL_FE11, TEMP_FE11
```

```
100  FORMAT(X,I4,X,I3,X,I2,2(X,2I2),8(E10.3,X,F6.1,E10.3))
```

PARAMETER LIST:

IYEAR:	year
IDOY:	day of year
IHOUR:	hour
IMIN:	minute
ISEC:	second
DENS_ALPHA:	alpha to oxygen 6+ density ratio
VEL_ALPHA:	alpha velocity
TEMP_ALPHA:	alpha temperature
DENS_C6:	carbon 6+ to oxygen 6+ density ratio
VEL_C6:	carbon 6+ velocity
TEMP_C6:	carbon 6+ temperature
DENS_O6:	unity
VEL_O6:	oxygen 6+ velocity
TEMP_O6:	oxygen 6+ temperature
DENS_NE8:	neon 8+ to oxygen 6+ density ratio
VEL_NE8:	neon 8+ velocity
TEMP_NE8:	neon 8+ temperature
DENS_MG10:	magnesium 10+ to oxygen 6+ density ratio
VEL_MG10:	magnesium 10+ velocity
TEMP_MG10:	magnesium 10+ temperature
DENS_SI9:	silicon 9+ to oxygen 6+ density ratio
VEL_SI9:	silicon 9+ velocity
TEMP_SI9:	silicon 9+ temperature
DENS_S10:	sulphur 10+ to oxygen 6+ density ratio
VEL_S10:	sulphur 10+ velocity
TEMP_S10:	sulphur 10+ temperature
DENS_FE11:	iron 11+ to oxygen 6+ density ratio

VEL_FE11: iron 11+ velocity
TEMP_FE11: iron 11+ temperature

DENSITY UNITS: ratio to oxygen 6+ density (no units)

VELOCITY UNITS: km/s

TEMPERATURE UNITS: K

TIME RESOLUTION: 3.5 hours

NOTES: accumulation time ensures that percentage error better than 20%

for density ratios

Solar Wind Ion Parameters from the Ulysses SWICS Experiment: 1990 - 1995

The following information describes the format of *.dat files in the [coho.ulyswc] directory for time averaged cruise data at 3.5 hour intervals, not including the Ulysses flyby of Jupiter, from the Ulysses Solar Wind Ion Composition Spectrometer (SWICS) experiment.

These data files have been copied for public release through NSSDC from the Ulysses Data System (UDS) at ESA/ESTEC. Release of UDS-held data through 1995 has been authorized by the SWICS Principal Investigator, Prof. J. Geiss of the University of Bern, Switzerland.

The data file name gives the starting year (yy) and day of year (ddd) of each file as USWIMATAyyddd.DAT

Please acknowledge the NASA National Space Science Data Center and the SWICS Principal Investigator for any use of this data in publications.

SWICS FILE FORMAT (REFERENCE: Astronomy and Astrophysics, 92, 2 page 279, table 5)

SOURCE LOCATION: ESTUDS::DKA500:[UDS.SWICS]USWIMATA90324.DAT;1

UDS REPRESENTATIVE: R. VON STEIGER (VSTEIGER@PHIM.UNIBE.CH)

RECORD FORMAT:

C FREE FORMAT

```
READ(1,*) IYEAR, IDOY, IHOUR, IMIN, ISEC,
      DENS_ALPHA, VEL_ALPHA, TEMP_ALPHA,
      .          DENS_C6, VEL_C6, TEMP_C6,
      .          DENS_O6, VEL_O6, TEMP_O6,
      .          DENS_NE8, VEL_NE8, TEMP_NE8,
      .          DENS_MG10, VEL_MG10, TEMP_MG10,
      .          DENS_SI9, VEL_SI9, TEMP_SI9,
      .          DENS_S10, VEL_S10, TEMP_S10,
      .          DENS_FE11, VEL_FE11, TEMP_FE11
```

C FIXED FORMAT

```
READ(1,100) IYEAR, IDOY, IHOUR, IMIN, ISEC,
      DENS_ALPHA, VEL_ALPHA, TEMP_ALPHA,
      .          DENS_C6, VEL_C6, TEMP_C6,
      .          DENS_O6, VEL_O6, TEMP_O6,
      .          DENS_NE8, VEL_NE8, TEMP_NE8,
      .          DENS_MG10, VEL_MG10, TEMP_MG10,
      .          DENS_SI9, VEL_SI9, TEMP_SI9,
      .          DENS_S10, VEL_S10, TEMP_S10,
      .          DENS_FE11, VEL_FE11, TEMP_FE11
100   FORMAT(X,I4,X,I3,X,I2,2(X,2I2),8(E10.3,X,F6.1,E10.3))
```

PARAMETER LIST:

IYEAR:	year
IDOY:	day of year
IHOUR:	hour
IMIN:	minute
ISEC:	second

DENS_ALPHA: alpha to oxygen 6+ density ratio
VEL_ALPHA: alpha velocity
TEMP_ALPHA: alpha temperature
DENS_C6: carbon 6+ to oxygen 6+ density ratio
VEL_C6: carbon 6+ velocity
TEMP_C6: carbon 6+ temperature
DENS_O6: unity
VEL_O6: oxygen 6+ velocity
TEMP_O6: oxygen 6+ temperature
DENS_NE8: neon 8+ to oxygen 6+ density ratio
VEL_NE8: neon 8+ velocity
TEMP_NE8: neon 8+ temperature
DENS_MG10: magnesium 10+ to oxygen 6+ density ratio
VEL_MG10: magnesium 10+ velocity
TEMP_MG10: magnesium 10+ temperature
DENS_SI9: silicon 9+ to oxygen 6+ density ratio
VEL_SI9: silicon 9+ velocity
TEMP_SI9: silicon 9+ temperature
DENS_S10: sulphur 10+ to oxygen 6+ density ratio
VEL_S10: sulphur 10+ velocity
TEMP_S10: sulphur 10+ temperature
DENS_FE11: iron 11+ to oxygen 6+ density ratio
VEL_FE11: iron 11+ velocity
TEMP_FE11: iron 11+ temperature

DENSITY UNITS: ratio to oxygen 6+ density (no units)
VELOCITY UNITS: km/s
TEMPERATURE UNITS: K

TIME RESOLUTION: 3.5 hours

NOTES: accumulation time ensures that percentage error better than 20%
for density ratios

Directory D-108002

README.TXT;1	SWC.COH;2	ULYSWC.FMT;4	USWIMATB90335.DAT;1
USWIMATB91001.DAT;1	USWIMATB91032.DAT;1	USWIMATB91060.DAT;1	USWIMATB91091.DAT;1
USWIMATB91121.DAT;1	USWIMATB91152.DAT;1	USWIMATB91182.DAT;1	USWIMATB91213.DAT;1
USWIMATB91244.DAT;1	USWIMATB91274.DAT;1	USWIMATB91305.DAT;1	USWIMATB91335.DAT;1
USWIMATB92001.DAT;1	USWIMATB92032.DAT;1	USWIMATB92061.DAT;1	USWIMATB92092.DAT;1
USWIMATB92122.DAT;1	USWIMATB92153.DAT;1	USWIMATB92183.DAT;1	USWIMATB92214.DAT;1
USWIMATB92245.DAT;1	USWIMATB92275.DAT;1	USWIMATB92306.DAT;1	USWIMATB92336.DAT;1
USWIMATB93001.DAT;1	USWIMATB93032.DAT;1	USWIMATB93060.DAT;1	USWIMATB93091.DAT;1
USWIMATB93121.DAT;1	USWIMATB93152.DAT;1	USWIMATB93182.DAT;1	USWIMATB93213.DAT;1
USWIMATB93244.DAT;1	USWIMATB93274.DAT;1	USWIMATB93305.DAT;1	USWIMATB93335.DAT;1
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USWIMATB94244.DAT;1	USWIMATB94274.DAT;1	USWIMATB94305.DAT;1	USWIMATB94335.DAT;1
USWIMATB95001.DAT;1	USWIMATB95032.DAT;1	USWIMATB95060.DAT;1	USWIMATB95091.DAT;1
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USWIMATB95244.DAT;1	USWIMATB95274.DAT;1	USWIMATB95305.DAT;1	USWIMATB95335.DAT;1

Total of 64 files.